

THE NAMES OF AUSTRALIAN AND NEW ZEALAND MYOPSOCIDAE (PSOCOPTERA)

By C. N. Smithers
The Australian Museum, College Street, Sydney.

Abstract

Psocus griseipennis McLachlan, *Myopsocus novaezealandiae* Kolbe and *Psocus zelandicus* Hudson (Psocoptera: Myopsocidae) are established as synonyms of *Psocus australis* Brauer which is now included in *Phlotodes* Enderlein. New distribution records are given for this and other Australian species of *Phlotodes*.

Introduction

Brauer (1865) described *Psocus australis* from material collected in Australia on the *Novara* expedition. McLachlan (1866) described *Psocus griseipennis* but suggested that it "may possibly be the *P. australis* of Brauer". He also immediately transferred *P. griseipennis* to the genus *Myopsocus*. Since then no further material of *P. australis* has been reported. Edwards (1950) described material which he referred to *Myopsocus australis* (Brauer) but the late Mr. J. V. Pearman (in litt.) pointed out that Edward's description of *M. australis* fitted the type of *M. griseipennis* well when allowance was made for the fact that the original measurements were given in lines, not millimetres. This error was first made in a quotation of McLachlan's description by Kolbe (1883) and was perpetuated by Enderlein (1903). Smithers (1964) renamed Edwards' *M. australis* material as *M. hickmani* and described two additional species, *M. incomptus* and *M. furcatus*, from Australia.

With the recent increase in collecting in Australia it was strange that *M. australis* was not found again whilst *M. griseipennis* emerged as a common species. It seemed, therefore, even more likely that McLachlan's species was, in fact, *M. australis* (Brauer). Through the kindness of Dr. A. Kaltenbach, of the Naturhistorisches Museum, Vienna, I have been able to examine a female specimen labelled "Novara Reise 1857-59 N. Holl. australis det Brauer". This specimen is undoubtedly of the same species as the *M. australis* material of Edwards which Pearman knew to be the same as *M. griseipennis* (McLachlan). *Psocus griseipennis* McLachlan falls in synonymy to *Psocus australis* Brauer (syn. nov.).

Enderlein (1910) transferred *M. griseipennis* to his genus *Phlotodes* and both *M. australis* (Brauer) and *M. griseipennis* (McLachlan) should, since then, have been referred to the genus *Phlotodes* although this has not been done in most subsequent references to these species. The common Australian species usually referred to as *M. griseipennis* should, therefore, be referred to as *Phlotodes australis* (Brauer) (comb. nov.).

In papers dealing with New Zealand Psocoptera (e.g. Kolbe, 1883; Tillyard, 1923; Smithers, 1969) only one species of Myopsocid (*M. novaezealandiae* Kolbe) has been mentioned. Examination of a large series of this species from New Zealand, kindly provided by Dr. Wong Siu Kai, shows that it, too, is the same as *Ph. australis*.

In order to clarify the position the significant references and synonyms for the four species of Myopsocidae so far described from Australia

and New Zealand are listed below under the currently valid names. Some new records for the species are also given.

***Phlotodes australis* (Brauer)**

- Psocus australis* Brauer, 1865. *Ver. zool.-bot. Ges. Wien* 15: 908.
Psocus griseipennis McLachlan, 1866. *Trans. ent. Soc. Lond.* (3)5: 348 (syn. nov.)
Myopsocus griseipennis (McL.). McLachlan, 1866. *Trans. ent. Soc. Lond.* (3)5: 352.
Psocus australis Brauer, Brauer, 1868. *Reise der Novara*. Zool. Theil II, Abt. IA, (4): 50.
Myopsocus griseipennis (McL.). Kolbe 1883. *Ent. Nachr.* 9: 144.
Myopsocus novaezealandiae Kolbe, 1883. *Ent. Nachr.* 9: 145, (syn. nov.)
Myopsocus australis (Brauer). Kolbe, 1883. *Ent. Nachr.* 9: 145.
Psocus zelandicus Hudson, 1892. *Manual of New Zealand entomology* p. 107, pl. XVI, figs. 2, 2a.
Myopsocus novaezealandiae Kolbe. McLachlan, 1894. *Ent. mon. Mag.* 30: 270.
Myopsocus novaezealandiae Kolbe. Hutton, 1899. *Trans. N.Z. Inst.* 31: 211.
Myopsocus griseipennis (McL.). Enderlein, 1903. *Ann. hist.-nat. Mus. hung.* 1: 300.
Myopsocus australis (Brauer). Enderlein, 1903. *Ann. hist.-nat. Mus. hung.* 1: 301.
Myopsocus novae-zealandiae Kolbe. Enderlein, 1903. *Ann. hist.-nat. Mus. hung.* 1: 302.
Myopsocus griseipennis (McL.). Enderlein, 1906. *Zool. Jb. Abt. Syst.* 23: 409.
Myopsocus australis (Brauer). Enderlein, 1906. *Zool. Jb. Abt. Syst.* 23: 410.
Phlotodes griseipennis (McL.). Enderlein, 1910. *S.B. Ges. nature Fr. Berl.* 1910(2): 67.
Myopsocus novaezealandiae Kolbe. Tillyard, 1923. *Trans. N.Z. Inst.* 54: 186, fig. 2; pl. 18, figs. 5, 6.
Myopsocus australis (Brauer). Edwards, 1950. *Pap. Proc. R. Soc. Tasm.* 1949: 100, figs. 18-25.
Myopsocus griseipennis (McL.). Smithers, 1964. *Proc. R. ent. Soc. Lond.* (B)33(7-8): 134.
Myopsocus australis (Brauer). Smithers, 1967. *Aust. Zool.* 14(1): 121.
Myopsocus griseipennis (McL.). Smithers, 1969. *Aust. Zool.* 14(1): 122.
Myopsocus novaezealandiae Kolbe. Smithers, 1969. *Aust. Zool.* 14(1): 122.
Myopsocus novaezealandiae Kolbe. Smithers, 1969. *Rec. Canterbury Mus.* 8(4): 340, figs. 205-211.
Myopsocus griseipennis (McL.). Smithers, 1970. *The insects of Australia*, Melbourne. (Chap. 24, figs. 24.1 D, 24.4 B, 24.5 B, C, 24.6 C).
Phlotodes griseipennis (McL.). Smithers, 1971. *J. Aust. ent. Soc.* 10: 24.
Myopsocus griseipennis (McL.). Smithers, 1972. *Aust. Zool.* 17(1): 23.
Phlotodes griseipennis (McL.). Smithers, 1973. *N.Z. Ent.* 5(2): 150.
Phlotodes griseipennis (McL.). Smithers and Thornton, 1974. *Rec. Aust. Mus.* 29: 234 (footnote).
New records. NEW SOUTH WALES: 1 ♀, Kangaroo Valley, 21.xi.1973 (A Healy); 4 ♂, 4 ♀, Sunny Corner, 20.ii.1973 (C. N. Smithers); 2 ♂, Vacluse, 6.i.1974 (J. O'Regan); 5 ♂, Clontarf, 4.viii.1973 (R. Brewer); 1 ♂, Narabeen, 17.i.1969 (J. V. Peters). **WESTERN AUSTRALIA:** 1 ♂, 2.4 km E. Pemberton, 19.xii.1970 (G. A. Holloway) (all in Aust. Mus.). A.C.T.: 1 ♀, in codling moth trap, Reid, 24.x.1973 (F. J. Gay) (in Aust. Nat. Ins. Coll.). **NEW ZEALAND:** 2 ♂, 3 ♀, Maungatopere, 12.ii.1971; 2 ♂, 3 ♀, Hammer Forest, 20.iii.1971; 1 ♂, 2 ♀, Rahui Rd., Otaki, 23.v.1970; 1 ♂, 2 ♀, Bush Rd., Kamo, 12.ii.1971; 1 ♀, Naseky, 18.iii.1971; 2 ♂, Kimberly Rd., Levin, 4.v.1970; 2 ♀, Queenstown, 6.iii.1971; 1 ♀, Alexandra, 11.iii.1971; 1 ♂, Mangahoa Rd., Shannon, 5.iv.1970; 3 ♂, 4 ♀, Queen St., Levin, 13.iv.1970; 1 ♀, Papakai Rd., Taihape, 30.i.1971; 1 ♂, Speargrass Creek, Nelson, 1.iii.1971; 1 ♀, Houhora, 10.ii.1971; 1 ♂, Esplanade, Palmerston, 2.v.1970; 1 ♀, Ngataki, 10.ii.1971; 1 ♂, 4 ♀, Te Aroha Domain, Te Aroha, 27.iii.1970; 1 ♂, Military Cemetery, Tauranga, 29.iii.1970; 1 ♀, Whangarei Falls, Whan-

garei, 8.ii.1971; 1 ♂, Virginia Lake, Wanganui, 12.xii.1970; 2 ♂, 2 ♀, Oxford St., Levin, 2.iii.1970; 1 ♂, 5 ♀, Otaki Forks, Otaki, 24.iv.1971. (All collected by S. K. Wong, material in Wong collection.) 1 ♀, Queen's Street, Levin, 22.xii.1969 (D. C. M. Manson) (in Wong collection).

***Phlotodes furcatus* (Smithers)**

Myopsocus furcatus Smithers, 1964. *Proc. R. ent. Soc. Lond.* (B)33: 137, figs. 1, 2, 7.

Phlotodes furcatus (Sm.). Smithers, 1971. *J. Aust. ent. Soc.* 10(1): 24.
New records. NEW SOUTH WALES: 1 ♂, Woronora R., Engadine, 3.xi.1973 (G. A. Holloway); 2 ♂, 1 ♀, Coonabarabran, 7.xi.1973 (C. N. Smithers); 1 ♂, Boorowa, 25.iii.1974 (C. N. Smithers) (in Aust. Mus.).

***Phlotodes hickmani* (Smithers)**

Myopsocus australis (Brauer). Hickman, 1934. *Pap. Proc. R. Soc. Tasm.* 1933: 85.
Myopsocus griseipennis (McL.). Edwards, 1950. *Pap. Proc. R. Soc. Tasm.* 1949: 104, figs. 26-32.

Myopsocus hickmani Smithers, 1964. *Proc. R. ent. Soc. Lond.* (B)33: 135.
Phlotodes hickmani (Sm.). Smithers, 1971. *J. Aust. ent. Soc.* 10(1): 24.
New record. VICTORIA: 2 ♂, 16 ♀, on rocks, Lower Templestowe, 30.xii.1968 (L. R. Greenup) (in Aust. Mus.).

***Phlotodes incomptus* (Smithers)**

Myopsocus incomptus Smithers, 1964. *Proc. R. ent. Soc. Lond.* (B)33: 137, figs. 3-5, 8, 9.

Phlotodes incomptus (Sm.). Smithers, 1971. *J. Aust. ent. Soc.* 10(1): 24.

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